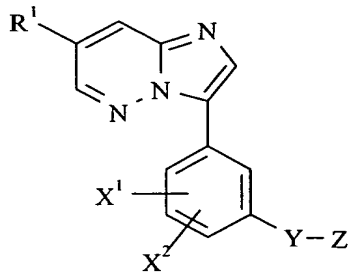
## ABSTRACT

# IMIDAZO[1,2-b]PYRIDAZINE ANALOGUES AS ANXIOLYTICS AND COGNITION ENHANCERS

The present invention provides a compound of formula I:



(I)

wherein

$X^1$ represents hydrogen, halogen, $C_{1-6}$ alkyl, trifluoromethyl or $C_{1-6}$ alkoxy;

$X^2$ represents hydrogen or halogen;

Y represents a chemical bond, an oxygen atom, or a -NH- linkage;

Z represents an optionally substituted aryl or heteroaryl group;

$R^1$ represents hydrogen, hydrocarbon, a heterocyclic group, halogen, cyano, trifluoromethyl, nitro, $-OR^a$, $-SR^a$, $-SOR^a$, $-SO_2R^a$, $-SO_2NR^aR^b$, $-NR^aR^b$, $-NR^aCOR^b$, $-NR^aCO_2R^b$, $-COR^a$, $-CO_2R^a$, $-CONR^aR^b$ or $-CR^a{=}NOR^b$; and

$R^a$ and $R^b$ independently represent hydrogen, hydrocarbon or a heterocyclic group; pharmaceutical compositions comprising this compound and methods of treating and/or preventing anxiety and convulsions using it.